

09/856,695

(FILE 'HOME' ENTERED AT 12:48:10 ON 30 APR 2004)

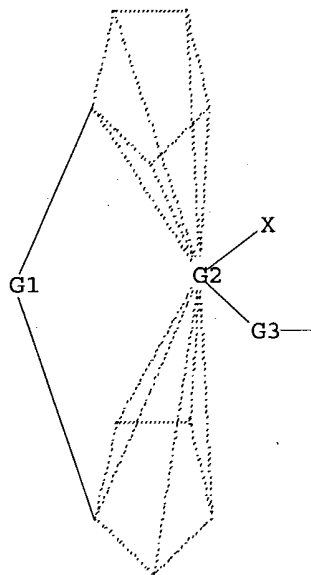
FILE 'REGISTRY' ENTERED AT 12:48:31 ON 30 APR 2004

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,N,P,Si,B

G2 Cf,Hf,Mo,Nb,Sc,Ti,V,W,Y,Zr

G3 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:49:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 818 TO ITERATE

100.0% PROCESSED 818 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 14645 TO 18075

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 12:49:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 16399 TO ITERATE

100.0% PROCESSED 16399 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.84

156.05

FILE 'CAPLUS' ENTERED AT 12:49:32 ON 30 APR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 30 Apr 2004 VOL 140 ISS 19

FILE LAST UPDATED: 29 Apr 2004 (20040429/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 2 L3

=> d 1-2 bib abs

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:11174 CAPLUS

DN 136:232364

TI Displacement of H3CB(C6F5)3- Anions from Zirconocene Methyl Cations by Neutral Ligand Molecules: Equilibria, Kinetics, and Mechanisms

AU Schaper, Frank; Geyer, Armin; Brintzinger, Hans H.

CS Fachbereich Chemie, Universitaet Konstanz, Konstanz, D-78457, Germany

SO Organometallics (2002), 21(3), 473-483

CODEN: ORGND7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

AB The displacement of the MeB(C6F5)3- anion from seven different zirconocene Me cations by neutral Lewis bases, such as dimethylaniline, benzyldimethylamine, and dinbutyl ether, was investigated by 1D and 2D NMR spectroscopy. Equilibrium consts. for reactions with dinbutyl ether change by factors of less than 5 between the zirconocene contact ion pairs studied, despite substantial steric differences. Rate consts. of this displacement reaction, however, change by a factor of more than 105 between Me2Si(C5H4)2ZrMe+MeB(C6F5)3-, the most "open" complex, and rac-Me2Si(2-Me-BzInd)2ZrMe+MeB(C6F5)3-, the most highly substituted species studied. Kinetic and stereochem. data indicate that Lewis base-anion exchange proceeds by way of an associative mechanism, which occurs without side change of the zirconium-bound Me group. DFT calcns. support an associative substitution mechanism and propose five-coordinated reaction intermediates with the Lewis base coordinated to the central coordination site.

RE.CNT 94 THERE ARE 94 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:68206 CAPLUS

DN 132:108519  
TI Catalyst and process for hydrogenating olefinically unsaturated compound  
IN Sasanuma, Hiroyuki; Takeuchi, Motokazu; Hattori, Iwakazu  
PA JSR Corporation, Japan  
SO Eur. Pat. Appl., 44 pp.  
CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 974602	A1	20000126	EP 1999-113841	19990715
	EP 974602	B1	20040102		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000037632	A2	20000208	JP 1998-209162	19980724
	US 6291596	B1	20010918	US 1999-353007	19990713
	AT 257161	E	20040115	AT 1999-113841	19990715
PRAI	JP 1998-209162	A	19980724		

OS MARPAT 132:108519

AB A hydrogenation catalyst comprises (A) a transition metal compound in which a group having a heterocyclic skeleton is bonded to Ti, Zr or Hf through an oxygen atom or a nitrogen atom, a representative of which compound is bis(cyclopentadienyl)titanium bis(tetrahydrofurfuryloxy) and optionally (B) an organic compound, halide or hydride of a metal of a group I to III element. Olefinically unsatd. compds. can be hydrogenated with a high efficiency by contacting the compound with hydrogen in the presence of the above catalyst in an inert, organic solvent. The above catalyst has a very high catalytic activity, is excellent in hydrogenation selectivity and thermal resistance, also excellent in storage stability and maintainability of catalytic activity and is hardly affected by the co-existing impurities. Polybutadiene was hydrogenated in the presence of bis(cyclopentadienyl)titanium bis(tetrahydrofurfuryloxy) catalyst.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT